

### Abstract

The instant invention is a separator for a battery having a zinc electrode. The battery separator according to the instant invention includes a microporous membrane, and a coating on at least one surface of the microporous membrane. The coating includes a mixture of 25-40 weight % polymer and 60-75 weight % surfactant combination. The polymer is cellulose acetate, and the surfactant combination includes a first surfactant and a second surfactant. The first surfactant, preferably, has an active ingredient selected from the group consisting of organic ethers, and the second surfactant is, preferably, an oxirane polymer with 2-ethylhexyl dihydrogen phosphate.

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